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PATENT APPLICATION
Docket No.: N.C. 82,621

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THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of: Ringeisen et al.

Serial No.: 10/068,364

Filed: February 8, 2002

For: GENERATION OF BIOMATERIAL MICROARRAYS BY LASER TRANSFER

Examiner: Not yet assigned

Art Group Unit: 1762

April 16, 2002

Honorable Commissioner of Patents
Washington, D.C. 20231

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INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants wish to cite the documents identified on the attached form PTO-1449.

Copies of the cited documents, to the extent they are available, are enclosed for the Examiner's convenience. Since the documents are in the English language, a concise explanation of their relevance is not necessary.

By this submission, Applicants do not assert that a search of the prior art was made or that the patents and documents cited constitute all relevant prior art. The references cited constitute only that information now known to the Applicants which, in the reasonable opinion of the Applicants, is relevant to the claimed invention.

Applicants reserve the right to remove these references by way of a declaration under 37 C.F.R. § 1.131 or 1.132.

The Examiner is requested to consider the cited documents, and to return a copy of the initialed and signed PTO-1449 form.

PATENT APPLICATION

Docket No.: N.C. 82,621

No fee is due for this information disclosure statement since is being filed before a first Office action on the merits. However, please charge any additional fee due or credit any overpayment to Deposit Account No. 50-0281.

Respectfully submitted,



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Substitute for form 1449A/PTO

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Sheet 1 of 3

Complete If Known

Application Number	10/068,364
Filing Date	February 08,2002
First Named Inventor	Ringeisen
Group Art Unit	1762
Examiner Name	unknown
Attorney Docket Number	NC 82.621

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A	3,745,586		Braudy	07/10/1973	
	B	3,978,247		Braudy et al.	08/31/1976	
	C	4,064,205		Landsman	12/20/1977	
	D	4,245,003		Oransky et al.	01/13/1981	
	E	4,702,958		Itoh et al.	10/27/1987	
	F	4,752,455		Mayer	06/21/1998	
	G	4,895,735		Cook	01/23/1990	
	H	4,970,196		Kim et al.	11/13/1990	
	I	4,987,006		Williams et al.	01/22/1991	
	J	5,156,938		Foley et al.	10/20/1992	
	K	5,171,650		Ellis et al.	12/15/1992	
	L	5,173,441		Yu et al.	12/22/1992	
	M	5,256,506		Ellis et al.	10/26/1993	
	N	5,292,559		Joyce, Jr. et al.	03/08/1994	
	O	5,492,861		Opower	02/20/1996	
	P	5,567,336		Tatah	10/22/1996	
	Q	5,725,706		Thoma et al.	03/10/1998	
	R	5,725,914		Opower	03/10/1998	
	S	5,736,464		Opower	04/07/1998	
	T	6,025,036		McGill et al.	02/15/2000	

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner
Signature

Date	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet 2 of 3

Complete if Known

Application Number	10/068,364
Filing Date	February 08,2002
First Named Inventor	Ringeisen
Group Art Unit	1762
Examiner Name	unknown
Attorney Docket Number	NC 82,621



U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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PTO/SB/08B (08-00)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3

of 3

Complete if Known

Application Number 10/068,364

Filing Date February 08, 2002

First Named Inventor Ringeisen

Group Art Unit 1762

Examiner Name unknown

Attorney Docket Number 82,621

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	Y	Tolbert et al, "Laser Ablation Transfer Imaging Using Picosecond Optical Pulses: Ultra-High Speed, Lower Threshold and High Resolution" Journal of Imaging Science and Technology, Vol. 37 No. 5 Sept./Oct. 1993 pp. 485-489	
	Z	Adrian et al, "A Study of the Mechanism of Metal Deposition by the Laser-Induced Forward Transfer Process" J. Vac. Sci. Technol. B5 (5), Sept./Oct. 1987 pp. 1490-1494	
	AA	Bohandy et al, "Metal Deposition from a Supported Metal Film Using an Excimer Laser, J. Appl. Phys. 60 (4) 15 August 1986 pp. 1538-1539	
	BB	von Gutfeld, R., Enhancing Ribbon Transfer Using Laser Printing, IBM Technical Disclosure Bulletin, Vol. 17, No. 6, Nov., 1974	
	CC	McGill, et al., "Choosing Polymer Coatings for Chemical Sensors", CHEMTECH Journal, American Chemical Society, Vol. 24, No. 9, Sept. 1994 pp. 27-37	
	DD	Ringeisen et al, "Generation of Mesoscopic Patterns of Viable Escherichia Coli by Ambient Laser Transfer", Biomaterials, Vol 23, 2002 pp. 161-166	
	EE	Wu et al, "The Deposition, Structure, Pattern Deposition, and Activity of Biomaterial Thin-Films by Matrix-Assisted Pulsed-Laser Evaporation (MAPLE) and MAPLE Direct Write", Thin Solid Films, Vol. 398-399, 2002 pp. 607-614	
	FF	Chrissey et al, "Matrix Assisted Pulsed Laser Evaporation Direct Write", Divisional Application, 09/671,166, Filed Sept. 28, 2000, pp. 1-12	
	GG	Ringeisen et al, "Generation of Viable Cell and Active Biomaterial Patterns By Laser Transfer", Provisional Application, 60/269,384 Filed Feb. 20, 2001, pp. 1-54	
	HH	Ringeisen et al, "Generation of Viable Cell and Active Biomaterial Patterns By Laser Transfer", Non-Provisional Application, 10/068,315 Filed Feb. 08, 2002 pp.1-37	
	II	Meneghini et al, "Transfer Printing Medium", PCT International Application, PCT/US94/11345, Filed Oct. 06, 1994, pp. 1-22	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 4

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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JJ		Young et al, "Jetting Behavior in the Laser Forward Transfer of Rheological Fluids", Provisional Application, 60/327,733 Filed Oct 10, 2001, pp. 1-46	
KK		Auyeung et al, "Laser Forward Transfer of Rheological Systems", Provisional Application, 60/290,400 Filed May 05, 2001, 1-17	

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